

Release notes for ENDF/B Development p-001_H_003
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT= 131, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 131, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      40 TO      47
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT= 131, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 131, MF= 1, MT=451
MOD =      2 OUT OF RANGE      0 -      0      RECORD NUMBER      40
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      49
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT= 50 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 50
SECTION 3/ 50 NOT IN DIRECTORY      RECORD NUMBER      54
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT=650 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT=650
SECTION 3/650 NOT IN DIRECTORY      RECORD NUMBER      83
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 6, MT= 2
SECTION 6/ 2 NOT IN DIRECTORY      RECORD NUMBER      96
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT= 50 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 6, MT= 50
SECTION 6/ 50 NOT IN DIRECTORY      RECORD NUMBER     314
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT=650 (0): Directory (b)

ERROR(S) FOUND IN MAT= 131, MF= 6, MT=650
SECTION 6/650 NOT IN DIRECTORY

RECORD NUMBER 458

• **fizcon** Errors:

1. The cross section and an outgoing distribution don't span the same energy region.
MAT= 131, MF= 3, MT= 2 (1): Diff limits (b)

ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 2
THE MAXIMUM INCIDENT ENERGY OF 1.20000E+07 (EV)
SHOULD BE GREATER THAN OR EQUAL TO 2.00000E+07

2. The cross section and an outgoing distribution don't span the same energy region.
MAT= 131, MF= 3, MT=650 (1): Diff limits (b)

ERROR(S) FOUND IN MAT= 131, MF= 3, MT=650
THE MAXIMUM INCIDENT ENERGY OF 1.20000E+07 (EV)
SHOULD BE GREATER THAN OR EQUAL TO 2.00000E+07

3. The cross section and an outgoing distribution don't span the same energy region.
MAT= 131, MF= 6, MT= 50 (1): Diff limits (a)

ERROR(S) FOUND IN MAT= 131, MF= 6, MT= 50
SECTION DOES NOT SPAN THE SAME ENERGY RANGE AS FILE 3, MT= 50

• **fudge-4.0** Errors:

1. There is a gap in the cross section
reaction label 0: H1 + H3 / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 1.2e7 eV to 20. MeV

2. Tabulated threshold below calculated threshold!
reaction label 1: n + He3 / Cross section: (Error # 0): Coulomb.threshold_mismatch

WARNING: Tabulated threshold 1.0191e6 eV below calculated threshold 1019165.454977745 eV!

3. Calculated and tabulated Q values disagree.
reaction label 1: n + He3 (Error # 1): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1243803.409596443 eV vs -763870. eV!

4. Energy range of data set does not match cross section range
*reaction label 1: n + He3 / Product: n / Distribution: / angularTwoBody - XYs2d:
(Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1019100.0 -> 12000000.0) vs (1019100.0 -> 20000000.0)

5. There is a gap in the cross section
reaction label 2: H2 + H2 / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 1.2e7 eV to 20. MeV

6. Calculated and tabulated Q values disagree.
reaction label 2: H2 + H2 (Error # 1): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4626281.411868572 eV vs -4.0329e6 eV!